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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/808,750	03/25/2004	Thomas C. Targosz	23852	5872	
50659 75	90 12/15/2005		EXAM	INER	
BUTZEL LON	NG		AURORA	, REENA	
DOCKETING DEPARTMENT					
100 BLOOMFIELD HILLS PARKWAY		ART UNIT	PAPER NUMBER		
SUITE 200		2862			
BLOOMFIELD HILLS, MI 48304			DATE MAILED: 12/15/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)			
		10/808,750 TARGOSZ, THOMAS C.		C.		
Office Action	Summary	Examiner	Art Unit			
		Reena Aurora	2862			
The MAILING DATE Period for Reply	of this communication app	ears on the cover sheet w	ith the correspondence address	s		
WHICHEVER IS LONGER - Extensions of time may be available after SIX (6) MONTHS from the may be a specified at the control of t	e under the provisions of 37 CFR 1.13 illing date of this communication. bove, the maximum statutory period wended period for reply will, by statute, er than three months after the mailing	ATE OF THIS COMMUNI 6(a). In no event, however, may a ill apply and will expire SIX (6) MOI cause the application to become A	reply be timely filed NTHS from the mailing date of this commur BANDONED (35 U.S.C. § 133).			
Status						
1) Responsive to comm	nunication(s) filed on	_•				
2a) This action is FINAL	. 2b)⊠ This	action is non-final.				
,	nce this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordanc	e with the practice under <i>E.</i>	x parte Quayle, 1935 C.l	D. 11, 453 O.G. 213.			
Disposition of Claims						
4) ⊠ Claim(s) <u>1 - 14</u> is/ard 4a) Of the above claim 5) □ Claim(s) is/ard 6) ⊠ Claim(s) <u>1, 5 - 8 and</u> 7) ⊠ Claim(s) <u>2 - 4, 9 - 10</u> 8) □ Claim(s) are	m(s) is/are withdraw e allowed. <u>111 - 12</u> is/are rejected. <u>1 and 13 - 14</u> is/are objected	vn from consideration. d to.				
Application Papers						
10) The drawing(s) filed of Applicant may not requestion. Replacement drawing	uest that any objection to the cosheet(s) including the correcti	☑ accepted or b)☐ objedrawing(s) be held in abeya on is required if the drawing				
Priority under 35 U.S.C. § 11						
12) ☐ Acknowledgment is r a) ☐ All b) ☐ Some *	nade of a claim for foreign	priority under 35 U.S.C.	§ 119(a)-(d) or (f).			
1. Certified copie	es of the priority documents	s have been received.				
-	es of the priority documents					
·	•	· ·	n received in this National Stag	le		
• •	m the International Bureau illed Office action for a list o	,	t received			
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Attachment(s)						
Notice of References Cited (PT 2) Notice of Draftsperson's Patent		Paper No	Summary (PTO-413) (s)/Mail Date			

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

Paper No(s)/Mail Date 05/27/04.

5) Notice of Informal Patent Application (PTO-152)

6) Other: ____.

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United

Claims 1, 5 – 8 and 11 - 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Ondrus et al. (5,831,151).

As to claim 1, Ondrus et al. (hereinafter Ondrus) discloses ferromagnetic tagging material suspended in a constituent mixing system having a first sensor (B sensor) for generating a first sense signal representing an amount of ferrous taggant particles per unit volume of a first component flowing adjacent the first sensor (B); a second sensor (AB sensor) for generating a second sense signal representing an amount of ferrous taggant particles per unit volume of a mixture of the first component and a ferrous taggant particle free second component flowing adjacent the second sensor (AB sensor); and a control (40) means responsive to the first and second sense signals for calculating a ratio of the volumes of the first and second components in the mixture (col. 3, line 35 - col. 4, line 39).

As to claim 11. Ondrus discloses ferromagnetic tagging material suspended in a constituent mixing system including the steps of a) providing a first sensor (B sensor) for generating a first sense signal representing an amount of ferrous taggant particles per unit volume of a first component flowing into a mixing device; b) providing a second

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sensor (AB sensor) generating a second sense signal representing an amount of ferrous taggant particles per unit volume of a mixture of the first component an a ferrous taggant particle free second component flowing in the mixing device; and c) providing control means (40) for calculating a ratio of the volumes of the first and second components in the mixture (col. 3, line 35 – col. 4, line 39).

As to claims 5 - 6 and 12, Ondrus discloses comparing a value of the first sense signal with a value of the second sense generated after a predetermined delay representing a time required for a portion of the first component to travel from the first sensor to the second sensor (col. 5, lines 1 – 37 and fig. 4).

As to claim 7, Ondrus discloses control means connected to an information processing device an generating an output signal representing the ration of the volumes to the information processing device (50, fig. 1).

As to claim 8, Ondrus discloses an A/D converter (420) for converting the first (B) and second (AB) sense signals (fig. 2).

Allowable Subject Matter

Claims 2-4, 9-10 and 13-14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

As to claims 2 – 4, the prior art fails to show at lest one of the first and second sensors has a generally tubular body with a central passage through which material flows, an inner sense coil extending about a circumference of the passage, a drive coil

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extending about a circumference of the inner sense coil, and an outer sense coil extending about a circumference of the drive circuit. These features taken together with the other limitations of the claim renders the claims allowable over prior art.

As to claims 9 and 13, the prior art fails to show a filter averaging a first one of all of the pairs of points and averaging a second one of all of the pairs of points to obtain first and second averages respectively the first and second averages representing an amplitude and phase of the first and second sense signals. These features taken together with the other limitations of the claim renders the claims allowable over prior art.

As to claims 10 and 14, the prior art fails to show a master for calibrating the first and second sensors, the first and second sensors each having a passage through which material flows, the master having a body with a smaller diameter end sized to fit into the passages and a larger diameter end sized for use as a handle, the body further having a core formed from a filler material and a predetermined percentage of the ferrous taggant particles. These features taken together with the other limitations of the claim renders the claims allowable over prior art.

Prior Art of Record

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Lewis (4,686,469) is cited for its disclosure of a method and device for measuring magnetic particles in a fluid.

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Kempster et al. (5,315,243) is cited for its disclosure of detection and discrimination between ferromagnetic and non-ferromagnetic conductive particles in a fluid.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Reena Aurora whose telephone number is 571-272-2263. The examiner can normally be reached on Monday - Friday, 7:00 - 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, E. Lefkowitz can be reached on 571-272-2180. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Reena Aurora